

## “2008” Annual Consumer Confidence Report (CCR)

### “TOWN OF STOKESDALE”

PWS ID# “NC0241035”

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We are pleased to present to you this year's Annual Drinking Water Quality Report. This report is a snapshot of last year's water quality. Included are details about from where your water comes, what it contains, and how it compares to standards set by regulatory agencies. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water and to providing you with this information, because informed customers are our best allies. **If you have any questions about this report or concerning your water, please contact Carolyn Joyner at 336-643-4011. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held at Stokesdale Town Hall, 8416 US Hwy 158 Stokesdale, NC on the 3<sup>rd</sup> Thursday of each month at 7:30 PM. You can also view this report on the Internet. Go to [www.stokesdale.org](http://www.stokesdale.org)**

#### **When You Turn on Your Tap, Consider the Source**

The water that is used by this system is surface water purchased from the City of Winston-Salem, North Carolina. A copy of their report is attached. You can also visit their web site to see their complete results at [www.cityofws.org](http://www.cityofws.org).

#### **What EPA Wants You to Know**

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming; pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses; organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems; and radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

## Source Water Assessment Program (SWAP) Results

The North Carolina Department of Environment and Natural Resources (DENR), Public Water Supply (PWS) Section, Source Water Assessment Program (SWAP) conducted assessments for all drinking water sources across North Carolina. The purpose of the assessments was to determine the susceptibility of each drinking water source (well or surface water intake) to Potential Contaminant Sources (PCSs). The results of the assessment are available in SWAP Assessment Reports that include maps, background information and a relative susceptibility rating of Higher, Moderate or Lower.

The relative susceptibility rating of each source for Town of Stokesdale was determined by combining the contaminant rating (number and location of PCSs within the assessment area) and the inherent vulnerability rating (i.e., characteristics or existing conditions of the well or watershed and its delineated assessment area). The assessment findings are summarized in the table below:

Susceptibility of Sources to Potential Contaminant Sources (PCSs)

| SOURCE NAME               | SUSCEPTIBILITY RATING | SWAP REPORT DATE |
|---------------------------|-----------------------|------------------|
| YADKIN RIVER (NW WTP DAM) | HIGHER                | March 2007       |
| SALEM LAKE                | HIGHER                | March 2007       |
| YADKIN RIVER (IDOLS DAM)  | HIGHER                | March 2007       |

The complete SWAP Assessment report for Town of Stokesdale may be viewed on the Web at: <http://www.deh.enr.state.nc.us/pws/swap> Please note that because SWAP results and reports are periodically updated by the PWS Section, the results available on this web site may differ from the results that were available at the time this CCR was prepared. If you are unable to access your SWAP report on the web, you may mail a written request for a printed copy to: Source Water Assessment Program – Report Request, 1634 Mail Service Center, Raleigh, NC 27699-1634, or email requests to [swap@ncmail.net](mailto:swap@ncmail.net). Please indicate your system name, PWSID, and provide your name, mailing address and phone number. If you have any questions about the SWAP report please contact the Source Water Assessment staff by phone at 919-715-2633.

It is important to understand that a susceptibility rating of “higher” does not imply poor water quality, only the systems’ potential to become contaminated by PCS’s in the assessment area.

### Water Quality Data Table of Detected Contaminants

We routinely monitor for over 150 contaminants in your drinking water according to Federal and State laws. The table lists all the drinking water contaminants that we detected in the last round of sampling for the particular contaminant group. The presence of contaminants does not necessarily indicate that water poses a health risk. **Unless otherwise noted, the data presented in this table is from testing done January 1 through December 31, 2008.** The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old.

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

### Important Drinking Water Definitions:

**Maximum Contaminant Level (MCL)** - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

**Maximum Contaminant Level Goal (MCLG)** - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

**Not-Applicable (N/A)** - Information not applicable/not required for that particular water system or for that particular rule.

**Action Level (AL)** - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

**Parts per million (ppm) or Milligrams per liter (mg/L)** - One part per million corresponds to one minute in two years or a single penny in \$10,000.

**Parts per billion (ppb) or Micrograms per liter (ug/L)** - One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

**Non-Detects (ND)** - Laboratory analysis indicates that the contaminant is not present at the level of detection set for the particular methodology used.

### Microbiological Contaminants

| Contaminant (Units)                             | MCL Violation Y/N | Your Water | MCLG | MCL  | Likely Source of Contamination                             |
|---|-------------------|------------|------|--|--|
| Total Coliform Bacteria (presence or absence)   | N                 | ND         | 0    | One positive monthly sample  | Naturally present in the environment                       |
| Fecal Coliform, or #.coli (presence or absence) | N                 | ND         | 0    | 0 (Note: The MCL is exceeded if a routine sample and repeat sample are total coliform positive, and one is also fecal) | Human and animal fecal waste coliform or E. coli positive) |

### Lead and Copper Contaminants

| Contaminant (Units)                        | Sample Date       | Your Water | # of sites found above the AL | MCLG | MCL    | Likely Source of Contamination   |
|--|-------------------|------------|-------------------------------|------|--------|--|
| Copper (ppm) (90 <sup>th</sup> percentile) | 6-6-08 to 6-11-08 | .ND        | 0                             | 0    | AL=1.3 | Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives |
| Lead (ppb) (90 <sup>th</sup> percentile)   | 6-6-08 to 6-11-08 | ND         | 0                             | 0    | AL+15  | Corrosion of household plumbing systems; erosion of natural deposits                                   |

### Disinfectants and disinfection Byproducts Contaminants

| Contaminant (Units)         | MCL/MRDL Violation Y/N | Your Water (Avg) | Range Low High | MCLG | MCL        | Likely Source of Contamination            |
|-----------------------------|------------------------|------------------|----------------|------|------------|---|
| Total Trihalomethanes, ppb  | N                      | 0.066 mg/l       | .051/.095      | N/A  | 0.080 mg/l | Byproducts of drinking water chlorination |
| Total Haloacetic Acids, ppb | N                      | 0.04 mg/l        | .0346/.0531    | N/A  | 0.060 mg/l | Byproducts of drinking water disinfection |

*Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.*

### **Violations that Your Water System Received for the Report Year**

During 2008, or during any compliance period that ended in 2008, we received no violations that covered the time period of 1/01/08 to 12/31/08. We are continuing to flush the system on a regular basis and will be sampling quarterly to assure that all contaminates stay within the allowable limits.